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	INFORMATION REPORT	25X1
COUNTRY	USSR	
SUBJECT	Abstract of Formation of Silicon Carbide During	
	the Electrolysis of Cryolite - Aluminum Oxide Melts by P F Antipin (Corres. of Academy of Science of USA	BR
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since aluminum carbide Al_hC₂ was always present. The reaction $SiO_2 + 2C = Si + 2CO$ does not occur at $1000^{\circ}C$. The presence of silicon carbide was proven by the X-ray density and by chemical analysis.

4. The por-ibility of the reactions above was proven by the calculation of free energies and equilibrium constants.

References

- 1) K P Batashev and Ja I Zhurin, Metallurgy 2, 66 (1933),
- 2) V P Mashovetz and E S Artobolevskaja, Tr NIIS of aluminum 9, 5 (1934).
- 5. This investigation was done in the Research Institute of the USSR for Aluminum and Magnesium, and shows the close connection between industry and research institutes in the USSR. Industrial processes are studied in the laboratory using industrial equipment on a smaller scale.
- 6. No details are reported in the article. Nevertheless, it seems to indicate that a work of good quality was done in the institute.
- 7. Reference Table I mentioned in abstract pertains to illustrations contained in the original Russien article as it appeared in Doki Akad Nauk USSR INK, No 2, 283-284, 1950.

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